

Ser. No.10/552,834
Amdt. dated January 30, 2008
Reply to Office action of October 31, 2007
Customer No. 24498

PF030058

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Amendments to the Claims

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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

1. (currently amended) An antenna system that comprises on a same substrate:

- a first transmission ~~antenna of a first type~~, and
- second and third reception ~~antennas of a second type~~,

~~wherein the first to third antennas are being slots which are excited by longitudinal radiation and are placed on a same edge of the same substrate, and the first antenna (10) being placed between the second and third antennas, wherein the first antenna is offset with respect to the second and third antennas such that the radiating extremity of the first antenna extends beyond the radiating extremities of the second and third antennas, the radiating extremity of the first antenna being located in the radiating zones of the second and third antennas.~~

2. (cancelled) ~~The system according to claim 1, wherein the first antenna is a transmission antenna and the second and third antennas are reception antennas, and wherein the first antenna is offset with respect to the second and third antennas such that the radiating extremity of the first antenna extends beyond the radiating extremities of the second and third antennas, the radiating extremity of the first antenna being located in the radiating zones of the second and third antennas.~~

3. (previously amended) The system according to claim 1, wherein a notch in a ground plane of the substrate is placed between the first antenna and the second antenna as well as between the first antenna and the third antenna.

4. (previously amended) The system according to claim 1, wherein the slots are excited by feed lines constituted by microstrip lines.

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5. (previously amended) The system according to claim 4, wherein the feed lines of the second and third antennas constitute a single microstrip line.

6. (currently amended) The system according to claim 5, wherein the microstrip line constituting the feed lines of the slots of the second and third antennas crosses the slot of the first antenna, in that the crossing point is being situated on the microstrip line at a distance, from the extremity of the said line, in the order of an odd multiple of half the guided wavelength (λ_m) in the microstrip line, and in that the crossing point being situated on the slot at a distance from a closed extremity of the said slot in the order of an odd multiple of half the guided wavelength (λ_f) in the slot.

7. (previously amended) The system according to claim 6, wherein the extremities of the slots of the second and third antennas, being situated opposite the radiating extremity, open out onto a break in the ground plane on which they are drawn, the break of the ground plane being able to be short-circuited via a diode.

8. (Currently amended) A PCMCIA standard interface card comprising an antenna system that comprises on a same substrate:

- a first transmission antenna of a first type, and
- second and third reception antennas of a second type,

wherein the first to third antennas are being slots which are excited by longitudinal radiation and are placed on a same edge of the same substrate, the first antenna being placed between the second and third antennas, wherein the first antenna is offset with respect to the second and third antennas such that the radiating extremity of the first antenna extends beyond the radiating extremities of the second and third antennas, the radiating extremity of the first antenna being located in the radiating zones of the second and third antennas.

9. (previously amended) The card according to claim 8, wherein the antenna system is placed at the end of the card in a zone placed outside a card drive.